

Best Management Practices

The following management requirements are designed to address the watershed management concerns. BMPs are derived from the Forest Service publications *National Best Management Practices for Water Quality Management on Nation Forest System Lands* (USDA Forest Service 2012). All applicable water quality BMPs will be implemented. Final application of these BMPs is based on integration with project design features.

National Core BMO	Best Management Practice Objective Description
AqEco-1. Aquatic Ecosystem Improvement and Restoration Planning	Reestablish and retain ecological resilience of aquatic ecosystems and associated resources to achieve sustainability and provide a broad range of ecosystem services.
AqEco-2. Operations in Aquatic Ecosystems	Avoid, minimize or mitigate adverse impacts to water quality when working in aquatic ecosystems.
AqEco-3. Ponds and Wetlands	Design and implement pond and wetlands projects in a manner that increases the potential for success in meeting project objectives and avoids, minimizes or mitigates adverse effects to soil, water quality and riparian resources.
AqEco-4. Stream Channels and Shorelines	Design and implement stream channel and lake shoreline projects in a manner that increase the potential for success in meeting project objectives and avoids, minimizes or mitigates adverse effects to soil, water quality and riparian resources.
Rec-3. Dispersed Use Recreation	Avoid, minimize, or mitigate adverse effects to soil, water quality and riparian resources by managing dispersed activities and undeveloped sites to maintain ground cover, maintain soil quality, control runoff and provide needed sanitary facilities to minimize the discharge of nonpoint source pollutants and maintain streambank and riparian area integrity.
Road-5. Temporary Roads	Avoid, minimize or mitigate adverse effects to soil, water quality and riparian resources from the construction and use of temporary roads
Road-7. Stream Crossings	Avoid, minimize, or mitigate adverse effects to soil, water quality and riparian resources when constructing, reconstructing or maintaining temporary and permanent waterbody crossings.
Road-9. Parking and Staging Areas	Avoid, minimize, or mitigate adverse effects to soil, water quality and riparian resources when constructing and maintaining parking and staging areas.

	Construct, install and maintain an appropriate level of drainage and runoff treatment for parking and staging areas to protect water, aquatic and riparian resources.
Road-10. Equipment Refueling and Servicing	Avoid or minimize adverse effects to soil, water quality and riparian resources from fuels, lubricants, cleaners and other harmful materials discharging into nearby surface water or infiltrating through soils to contaminate groundwater resources fueling equipment refueling and servicing activities.
WatUses-4. Water Diversions and Conveyances	Avoid, minimize or mitigate adverse effects to soil, water quality and riparian resources from construction, operation, and maintenance of water diversion and conveyance structures.

USDA Forest Service. April 2012. National Best Management Practices for Water Quality Management on National Forest System Lands. Volume 1: National Core BMP Technical Guide. FS-990a. (Available at: http://www.fs.fed.us/biology/resources/pubs/watershed/FS_National_Core_BMPs_April2012.pdf)